

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\  
 Data File : VN054524.D  
 Acq On : 21 Mar 2019 21:12  
 Operator : JC/SP  
 Sample : K1964-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TW-11

Quant Time: Mar 22 10:18:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 448549   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 815220   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 849324   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 300050   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 298478   | 53.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.00% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 258203   | 49.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.32%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1068106  | 54.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.20% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 390450   | 58.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.22% |          |

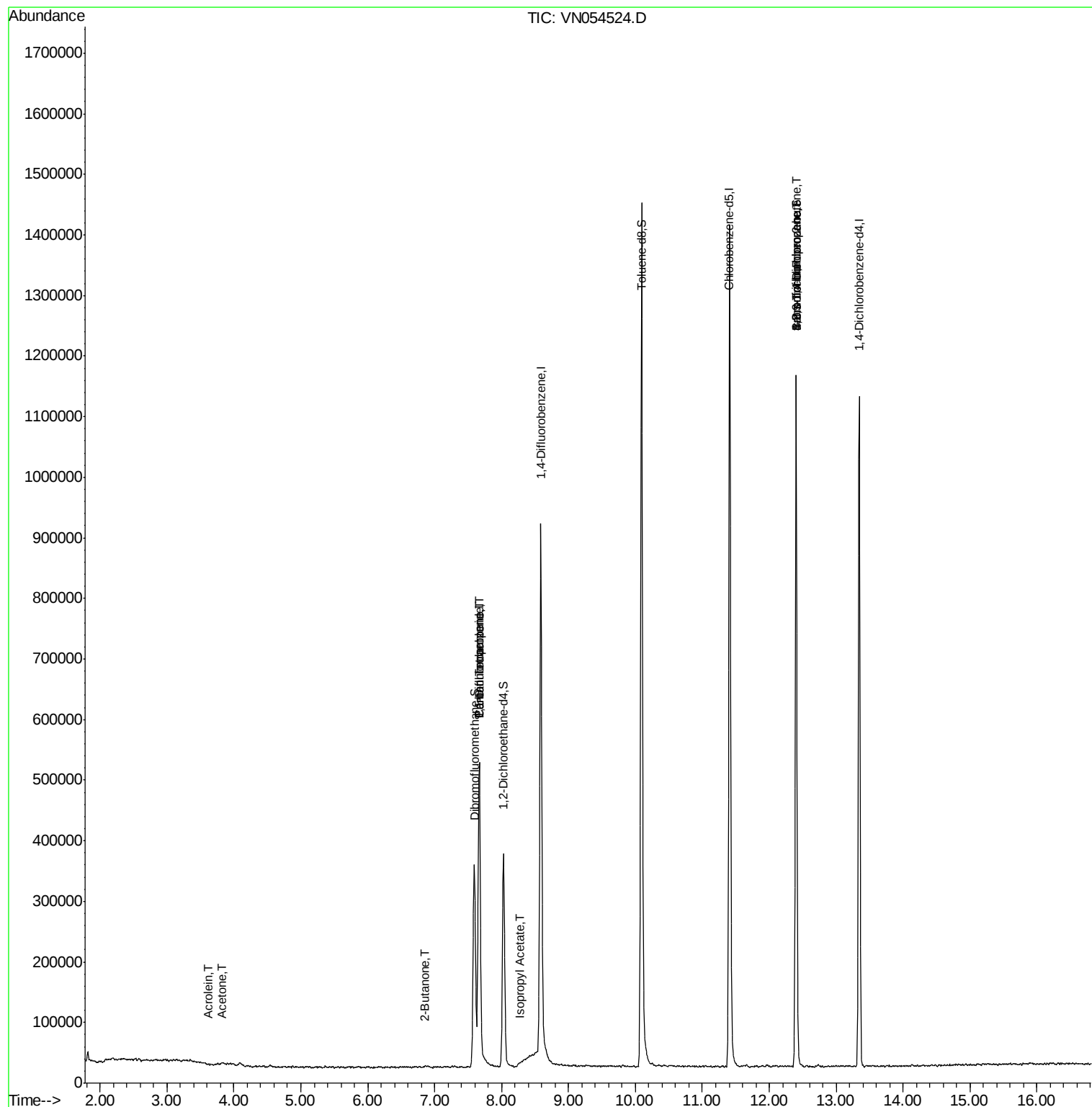
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.62  | 56   | 241      | 0.517     | ug/l # | 54     |
| 16) Acetone                    | 3.82  | 43   | 2773     | 1.653     | ug/l # | 87     |
| 25) 2-Butanone                 | 6.86  | 43   | 716      | 0.333     | ug/l # | 46     |
| 31) Cyclohexane                | 7.67  | 56   | 9637     | Below Cal | #      | 32     |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 32529    | 4.268     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 40644    | 5.487     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.26  | 43   | 3096     | 0.338     | ug/l # | 60     |
| 71) Bromoform                  | 12.39 | 173  | 784      | 2.396     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 201167   | 42.250    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 201167   | 139.584   | ug/l # | 11     |

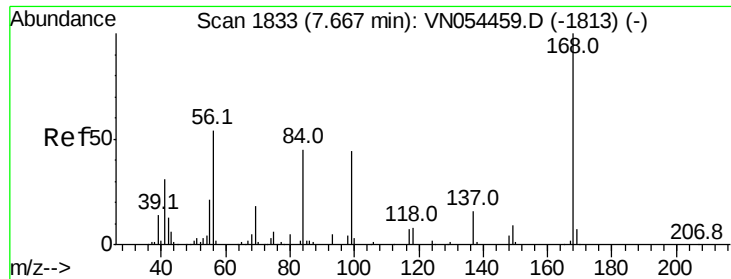
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampled :

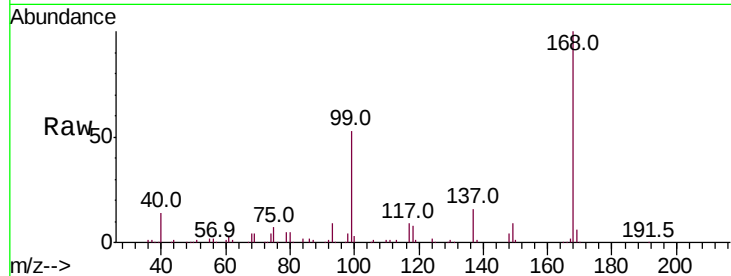
TW-11

Tot Ion:168 Resp: 448549

Ion Ratio Lower Upper

168 100

99 53.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

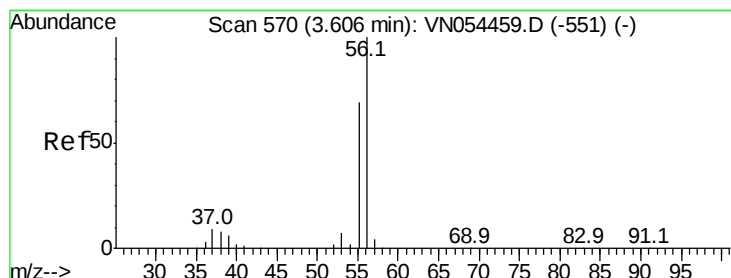
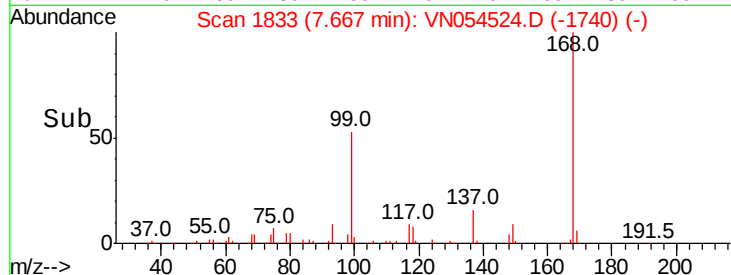
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 0.517 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054524.D

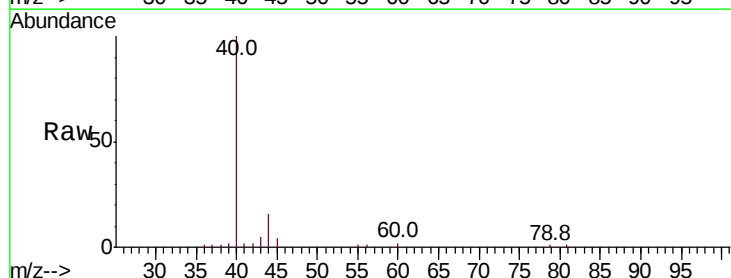
Acq: 21 Mar 2019 21:12

Tgt Ion: 56 Resp: 241

Ion Ratio Lower Upper

56 100

55 109.1 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.62

300

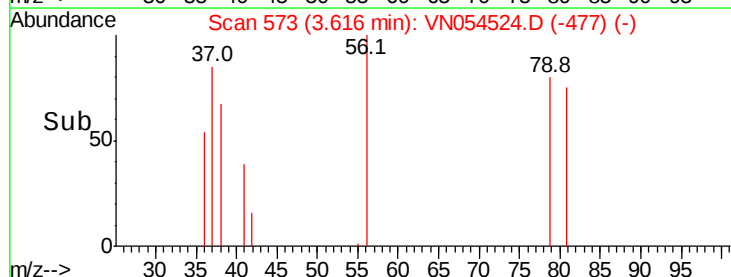
200

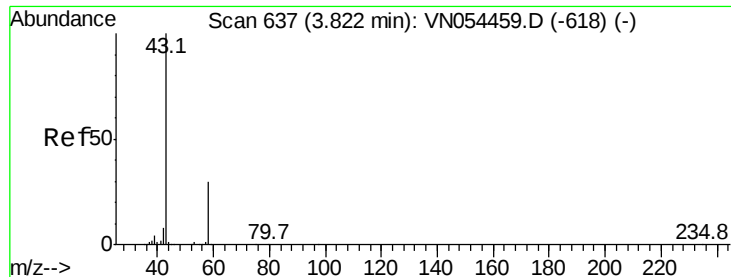
100

0

3.60 3.62 3.64

Time-->





#16

Acetone

Concen: 1.653 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampled :

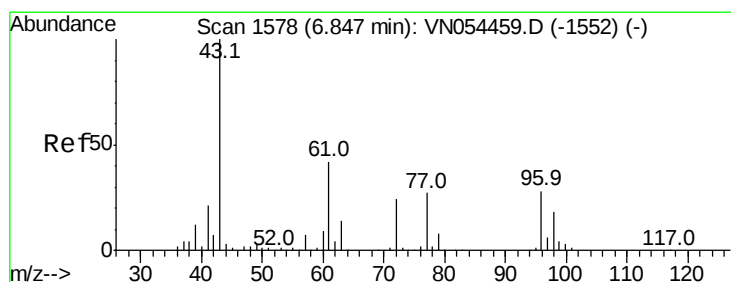
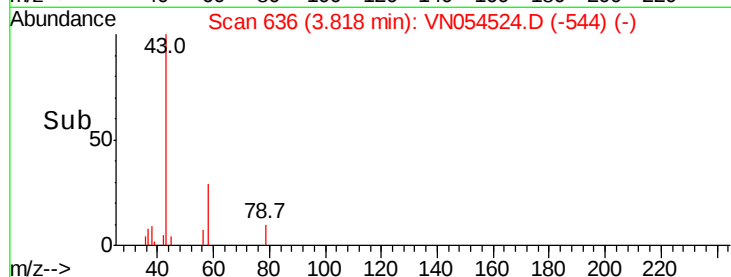
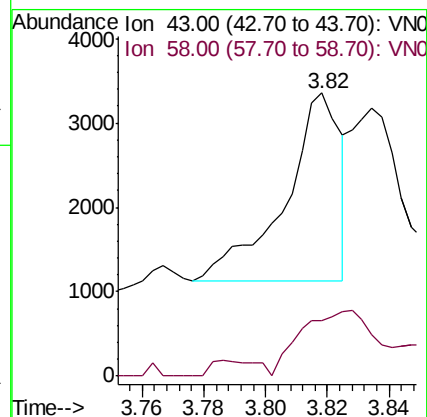
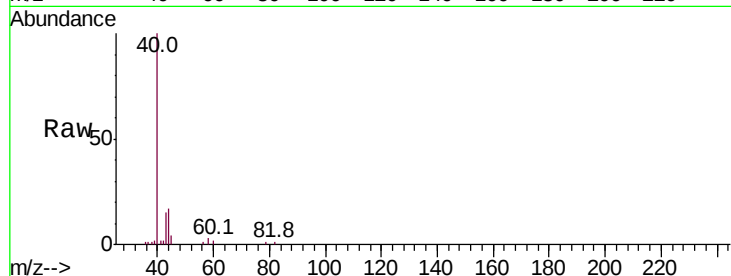
TW-11

Tot Ion: 43 Resp: 2773

Ion Ratio Lower Upper

43 100

58 29.9 29.9 44.9#



#25

2-Butanone

Concen: 0.333 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN054524.D

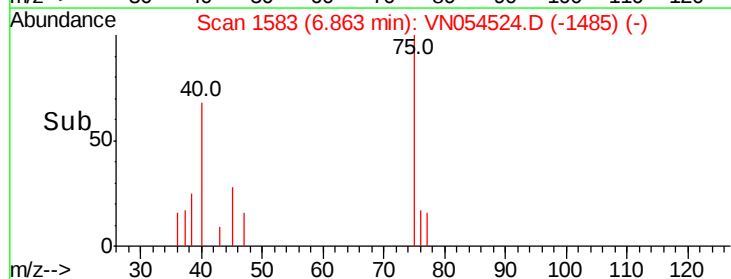
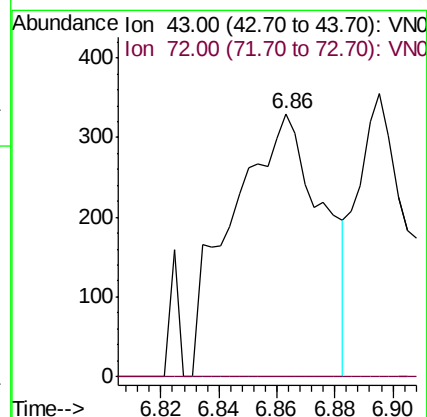
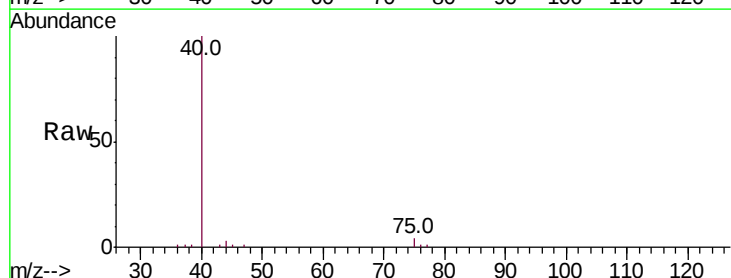
Acq: 21 Mar 2019 21:12

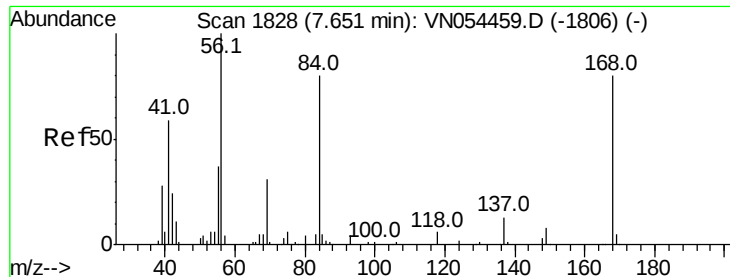
Tgt Ion: 43 Resp: 716

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

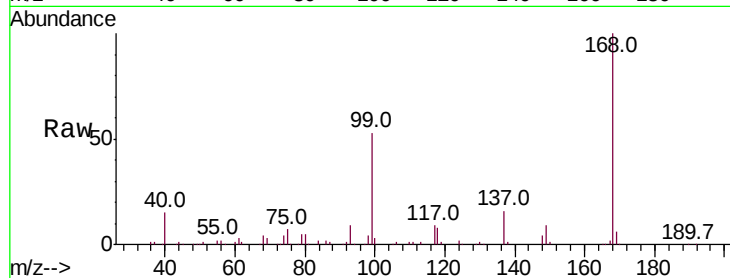
Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

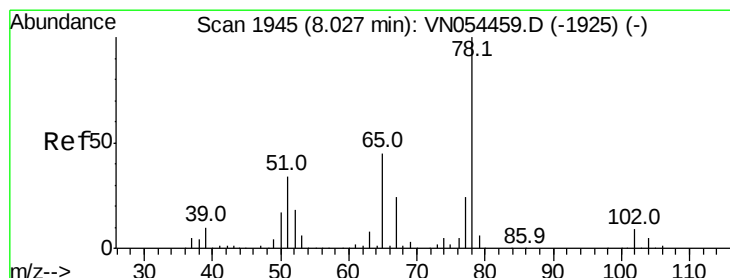
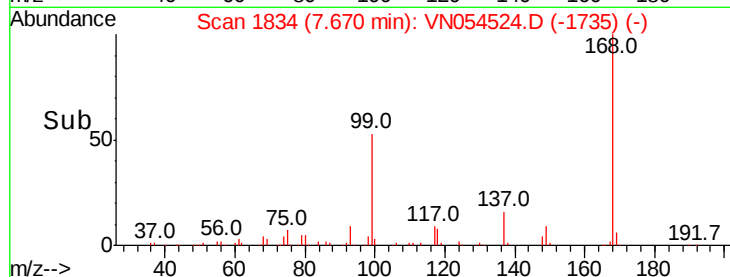
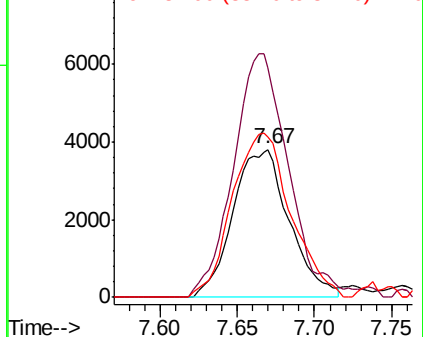
Instrument :  
MSVOA\_N  
ClientSampled :  
TW-11

Tot Ion: 56 Resp: 9637

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 154.9 | 27.8  | 41.6# |
| 84  | 108.6 | 74.6  | 111.8 |



Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.498 ug/l

RT: 8.03 min Scan# 1945

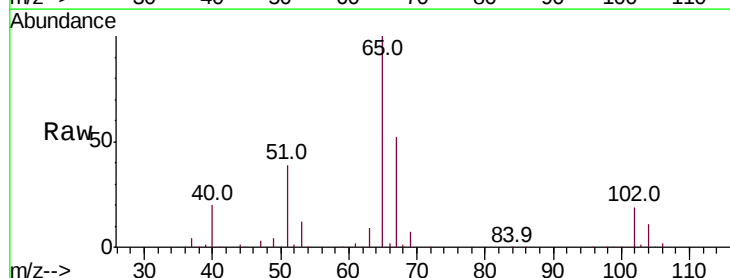
Delta R.T. -0.00 min

Lab File: VN054524.D

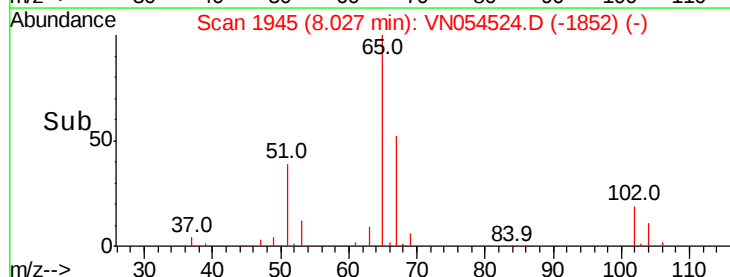
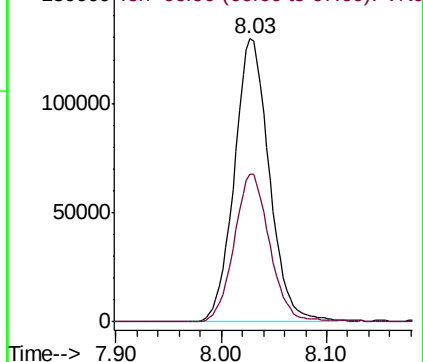
Acq: 21 Mar 2019 21:12

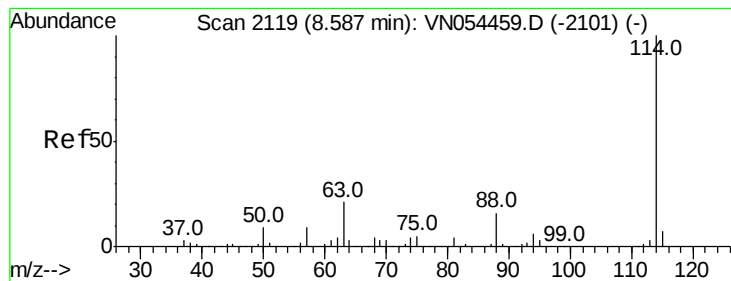
Tgt Ion: 65 Resp: 298478

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 52.8  | 0.0   | 104.6 |



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampleId :

TW-11

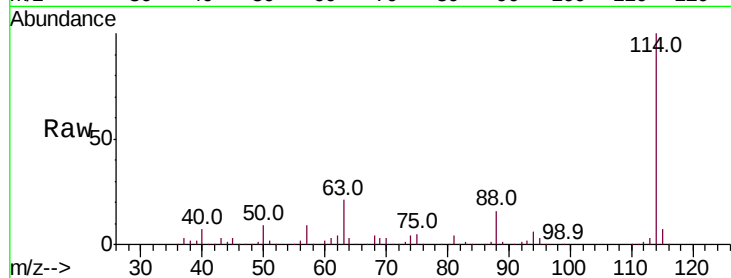
Tot Ion:114 Resp: 815220

Ion Ratio Lower Upper

114 100

63 21.4 0.0 35.2

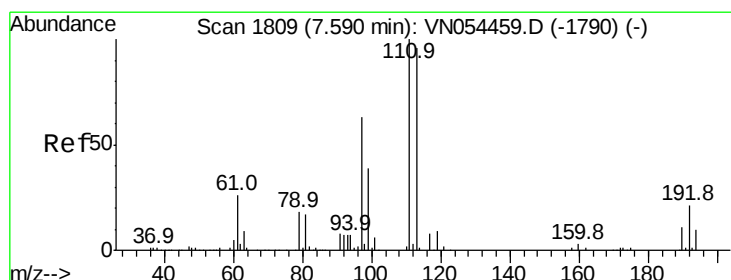
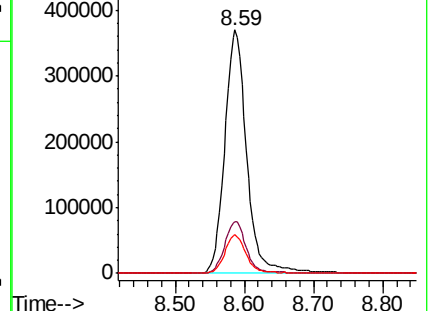
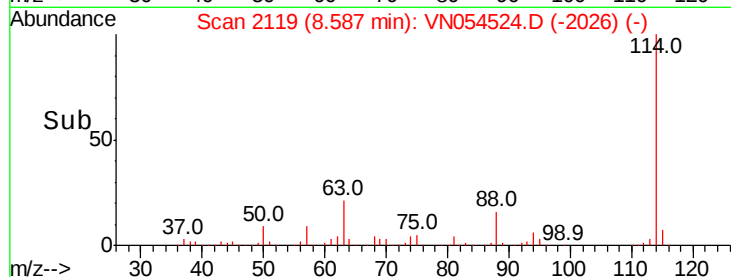
88 15.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.162 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

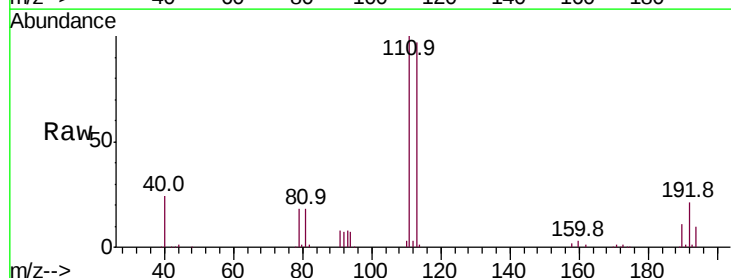
Tgt Ion:113 Resp: 258203

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

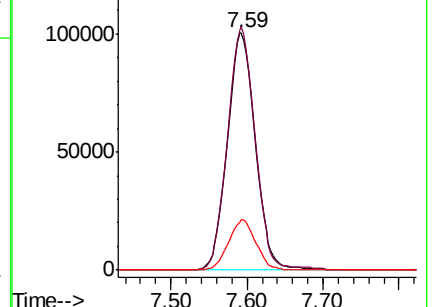
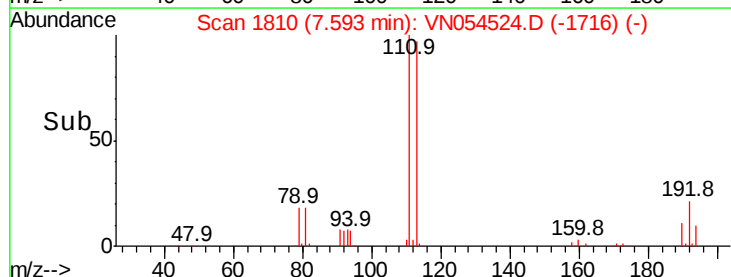
192 20.8 19.2 28.8

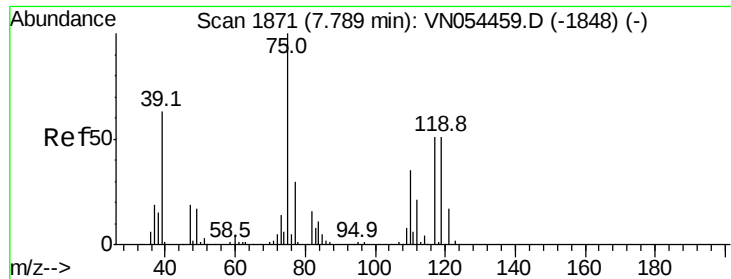


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

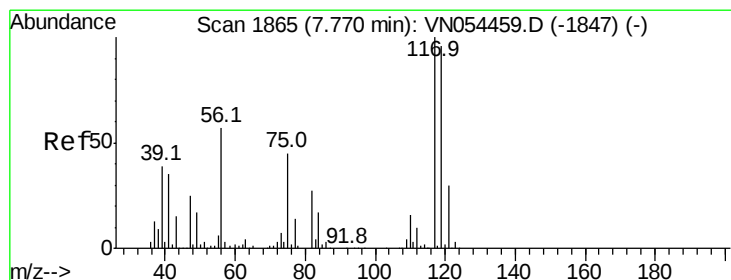
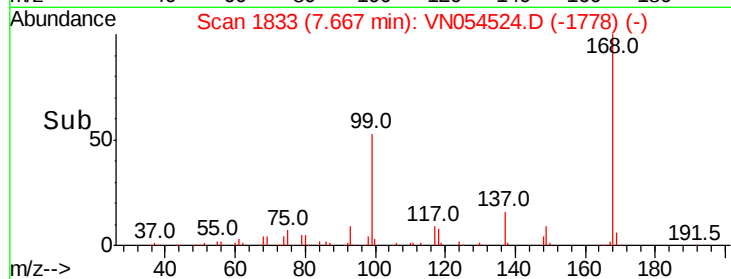
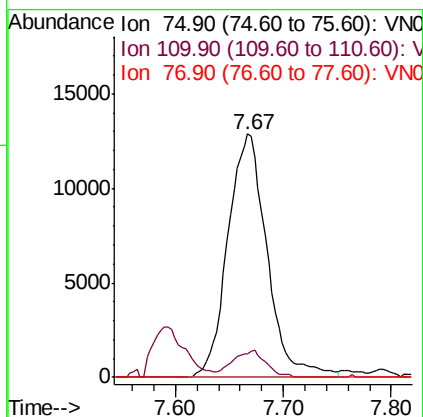
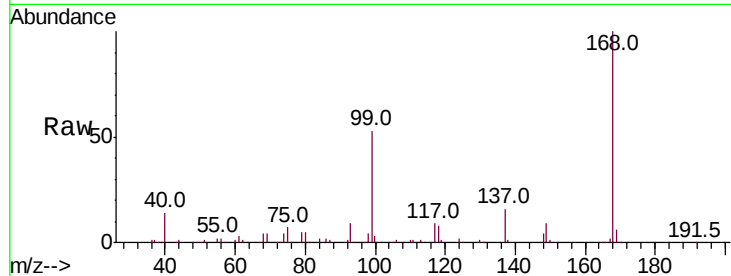




#36  
 1,1-Dichloropropene  
 Concen: 4.268 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.12 min  
 Lab File: VN054524.D  
 Acq: 21 Mar 2019 21:12

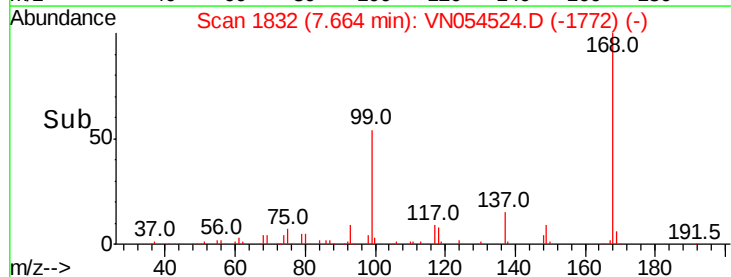
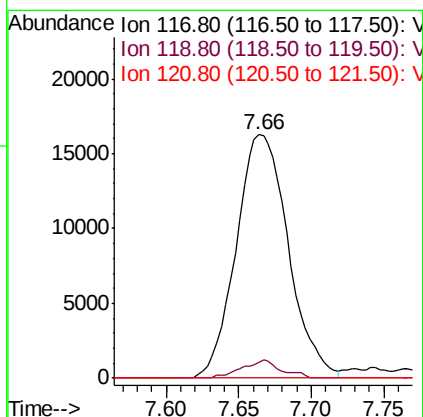
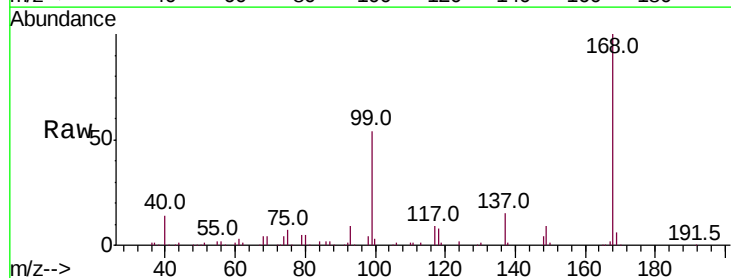
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TW-11

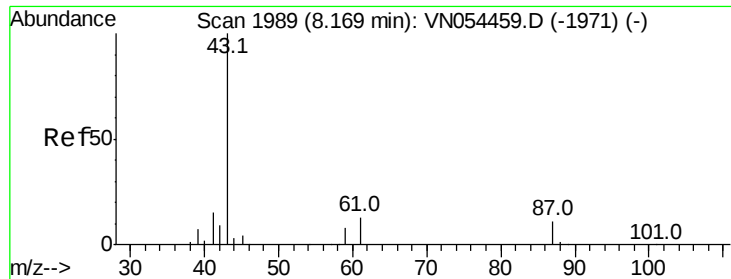
Tot Ion: 75 Resp: 32529  
 Ion Ratio Lower Upper  
 75 100  
 110 9.4 19.1 57.5#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 5.487 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN054524.D  
 Acq: 21 Mar 2019 21:12

Tgt Ion: 117 Resp: 40644  
 Ion Ratio Lower Upper  
 117 100  
 119 6.4 76.3 114.5#  
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.338 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.09 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampleId :

TW-11

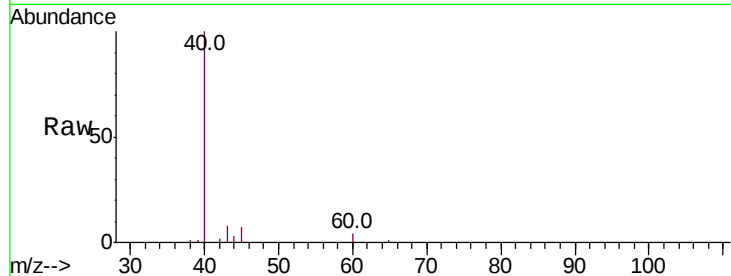
Tot Ion: 43 Resp: 3096

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

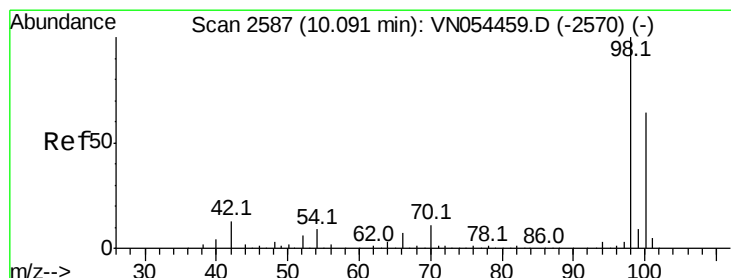
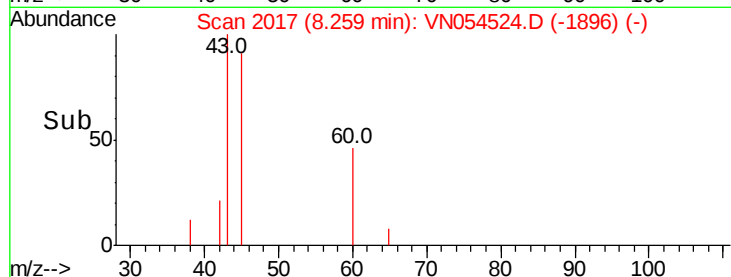
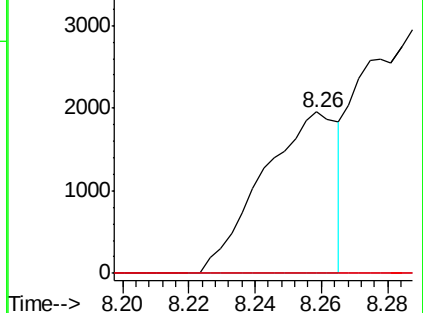
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 54.096 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054524.D

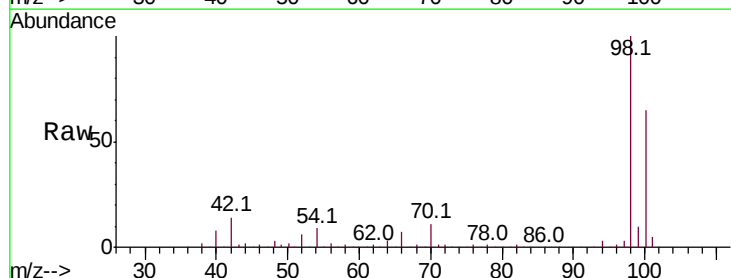
Acq: 21 Mar 2019 21:12

Tgt Ion: 98 Resp: 1068106

Ion Ratio Lower Upper

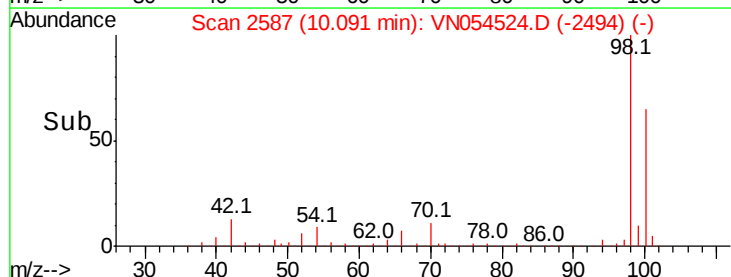
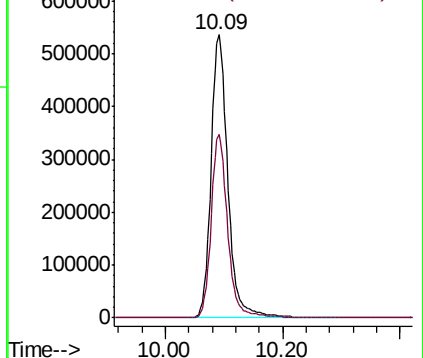
98 100

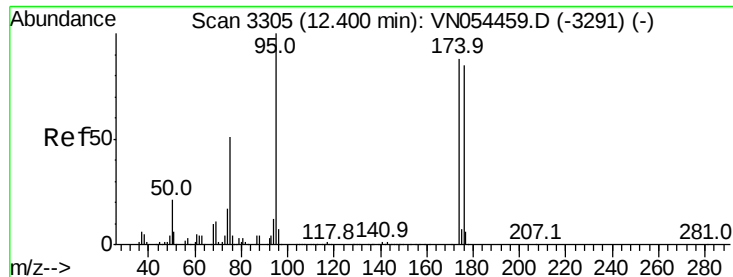
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 58.114 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampleId :

TW-11

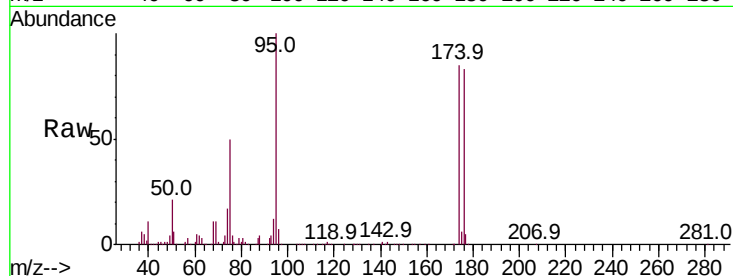
Tot Ion: 95 Resp: 390450

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

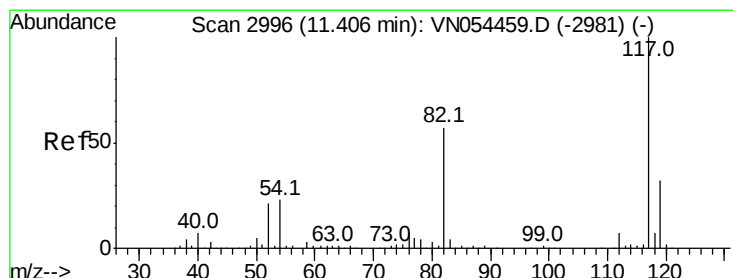
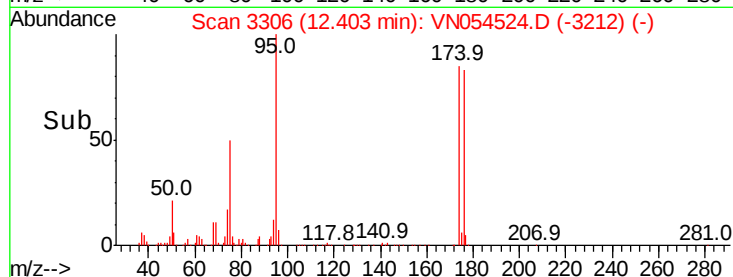
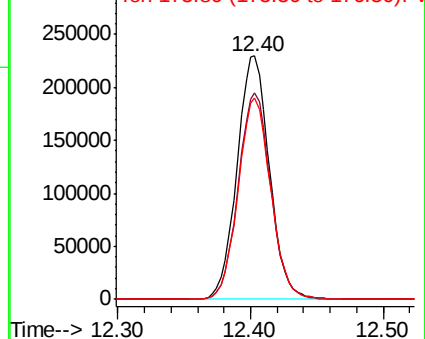
176 83.2 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

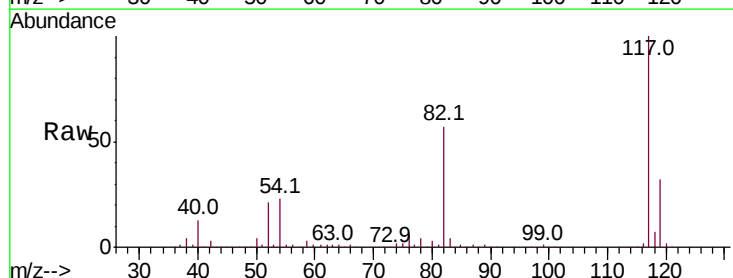
Tgt Ion: 117 Resp: 849324

Ion Ratio Lower Upper

117 100

82 57.0 40.0 60.0

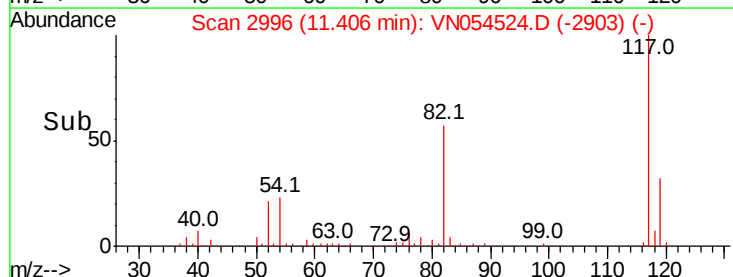
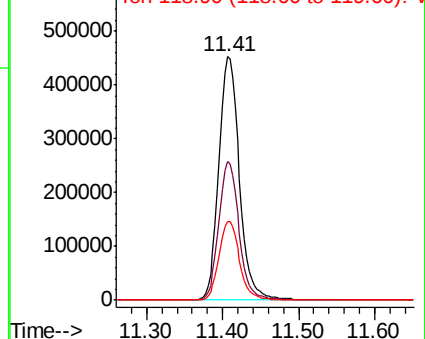
119 32.5 25.8 38.6

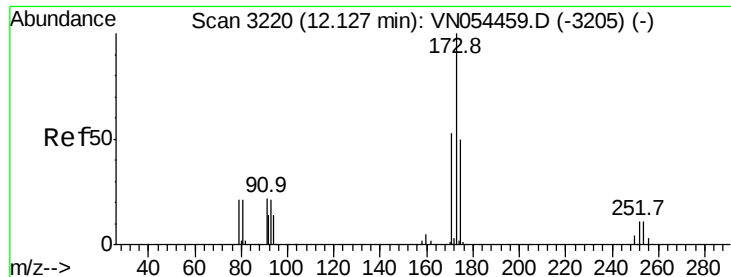


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#71

Bromoform

Concen: 2.396 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampleId :

TW-11

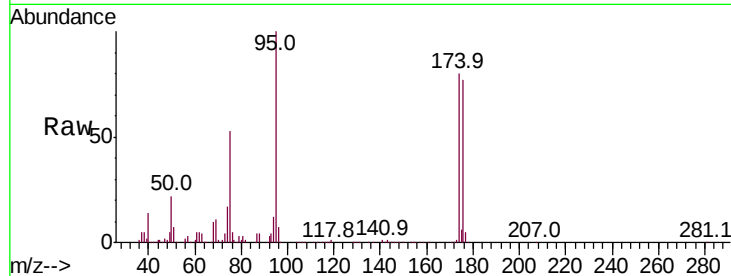
Tot Ion:173 Resp: 784

Ion Ratio Lower Upper

173 100

175 2625.4 24.4 73.2#

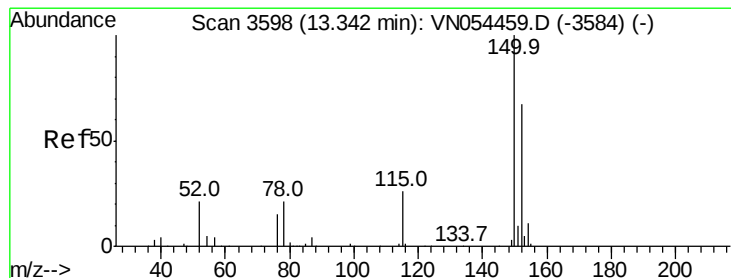
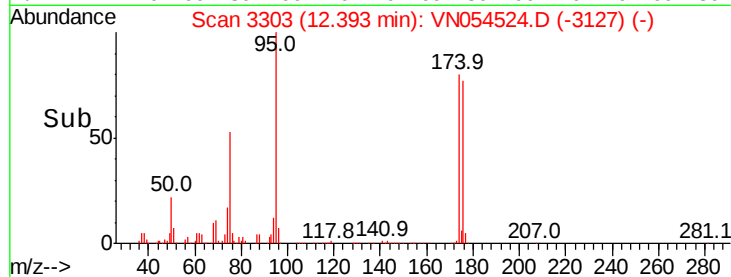
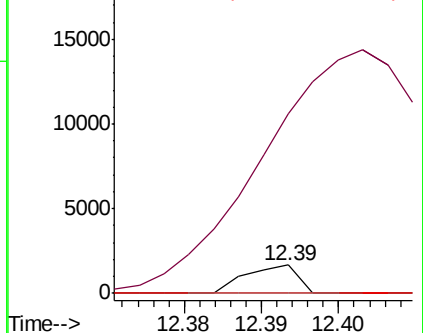
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

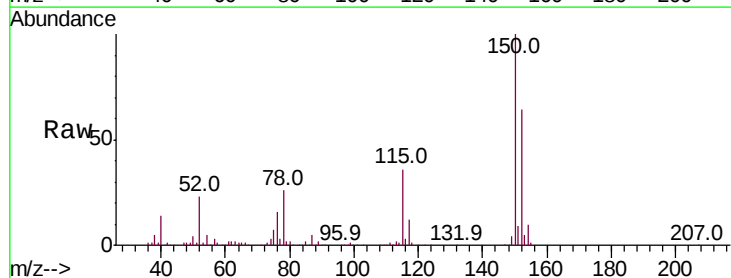
Tgt Ion:152 Resp: 300050

Ion Ratio Lower Upper

152 100

115 57.6 27.2 81.6

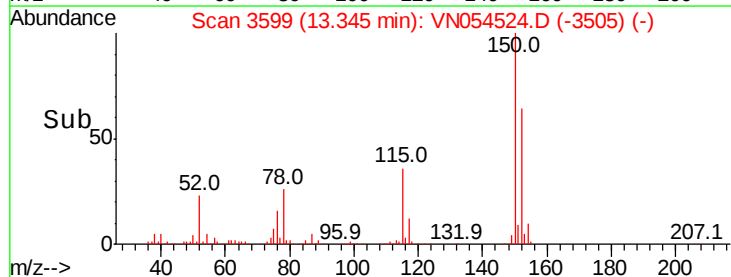
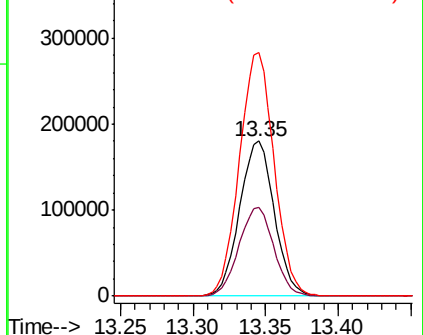
150 157.4 0.0 349.2

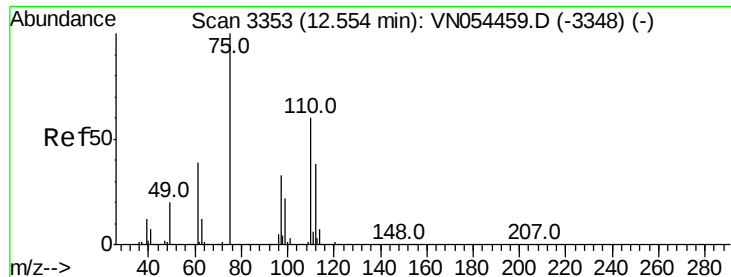


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 42.250 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

Instrument :

MSVOA\_N

ClientSampled :

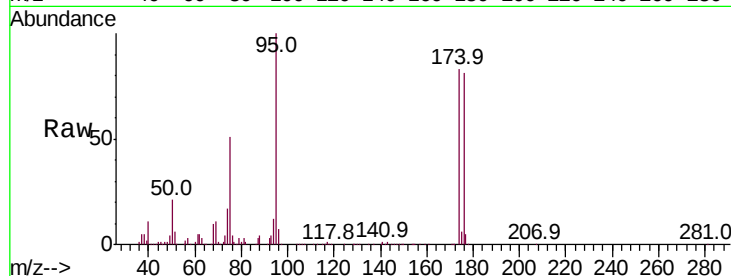
TW-11

Tot Ion: 75 Resp: 201167

Ion Ratio Lower Upper

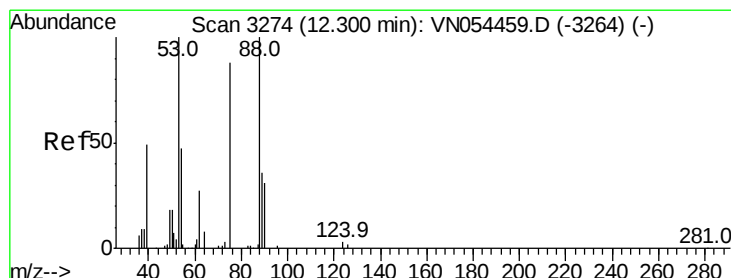
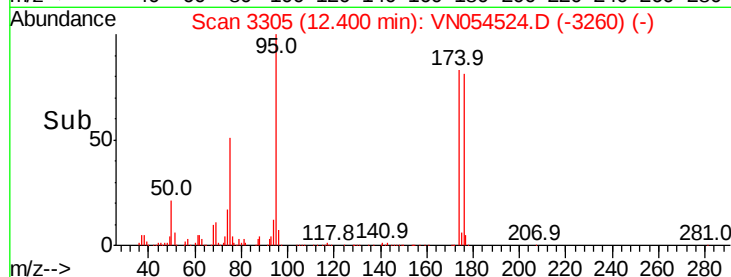
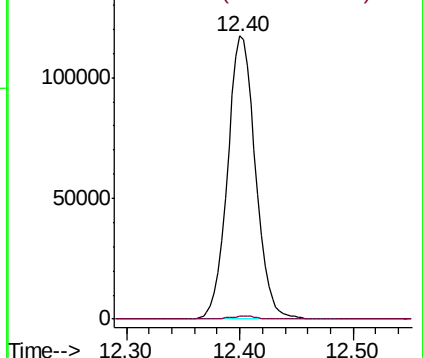
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 139.584 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054524.D

Acq: 21 Mar 2019 21:12

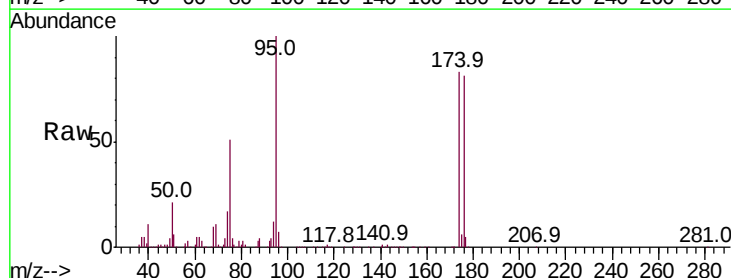
Tgt Ion: 75 Resp: 201167

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

